Table G-1: 2000 CH₄ Emissions from Petroleum Production Field Operations

Vented Emissions Oil Tanks Pneumatic Devices, High Bleed Pneumatic Devices, Low Bleed Chemical Injection Pumps Vessel Blowdowns Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	345 35 248 78 3,775 8,443 2,345 733 96 2.40	scf of CH ₄ /bbl crude scfd CH ₄ /device scfd CH ₄ /device scfd CH ₄ /pump scfy CH ₄ /vessel scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion scf CH ₄ /workover	1,234 142,840 265,275 28,595 186,502 2,531 2,531 348,867 4,731	MMbbl/yr (non stripper wells) No. of high-bleed devices No. of low-bleed devices No. of pumps No. of vessels No. of compressors No. of compressors No. of stripper wells vented	(Bcf/yr) 47.754 22.086 17.998 3.342 2.589 0.015 0.010 0.021
Oil Tanks Pneumatic Devices, High Bleed Pneumatic Devices, Low Bleed Chemical Injection Pumps Vessel Blowdowns Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	345 35 248 78 3,775 8,443 2,345 733 96 2.40	scfd CH ₄ /device scfd CH ₄ /device scfd CH ₄ /pump scfy CH ₄ /vessel scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	142,840 265,275 28,595 186,502 2,531 2,531 348,867	No. of high-bleed devices No. of low-bleed devices No. of pumps No. of vessels No. of compressors No. of compressors	22.086 17.998 3.342 2.589 0.015 0.010 0.021
Pneumatic Devices, High Bleed Pneumatic Devices, Low Bleed Chemical Injection Pumps Vessel Blowdowns Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	345 35 248 78 3,775 8,443 2,345 733 96 2.40	scfd CH ₄ /device scfd CH ₄ /device scfd CH ₄ /pump scfy CH ₄ /vessel scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	142,840 265,275 28,595 186,502 2,531 2,531 348,867	No. of high-bleed devices No. of low-bleed devices No. of pumps No. of vessels No. of compressors No. of compressors	17.998 3.342 2.589 0.015 0.010 0.021
Pneumatic Devices, Low Bleed Chemical Injection Pumps Vessel Blowdowns Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	35 248 78 3,775 8,443 2,345 733 96 2.40	scfd CH ₄ /device scfd CH ₄ /pump scfy CH ₄ /vessel scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	265,275 28,595 186,502 2,531 2,531 348,867	No. of low-bleed devices No. of pumps No. of vessels No. of compressors No. of compressors	3.342 2.589 0.015 0.010 0.021
Chemical Injection Pumps Vessel Blowdowns Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	248 78 3,775 8,443 2,345 733 96 2.40	scfd CH ₄ /pump scfy CH ₄ /vessel scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	28,595 186,502 2,531 2,531 348,867	No. of pumps No. of vessels No. of compressors No. of compressors	2.589 0.015 0.010 0.021
Vessel Blowdowns Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	78 3,775 8,443 2,345 733 96 2.40	scfy CH ₄ /vessel scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	186,502 2,531 2,531 348,867	No. of vessels No. of compressors No. of compressors	0.015 0.010 0.021
Compressor Blowdowns Compressor Starts Stripper wells Well Completion Venting Well Workovers	3,775 8,443 2,345 733 96 2.40	scf/yr of CH ₄ /compressor scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	2,531 2,531 348,867	No. of compressors No. of compressors	0.010 0.021
Compressor Starts Stripper wells Well Completion Venting Well Workovers	8,443 2,345 733 96 2.40	scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	2,531 348,867	No. of compressors	0.021
Compressor Starts Stripper wells Well Completion Venting Well Workovers	8,443 2,345 733 96 2.40	scf/yr. of CH ₄ /compressor scf/yr of CH ₄ /stripper well scf/completion	2,531 348,867	No. of compressors	
Stripper wells Well Completion Venting Well Workovers	2,345 733 96 2.40	scf/yr of CH ₄ /stripper well scf/completion	348,867		
Well Completion Venting Well Workovers	733 96 2.40	scf/completion		1 10. OI SHIPPOI WOHS VOINCU	0.818
Well Workovers	96 2.40		4,/31	Oil well completions	0.003
	2.40	SCI CIIA/WUIKUVUI	40,050	Oil well workovers	0.004
Pipeline Pigging		scfd of CH ₄ /pig station	0	No. of crude pig stations	0.000
Offshore Platforms, Gulf of Mexico	1.283	scfd CH ₄ /platform	1,832	No. of oil platforms	0.858
Offshore Platforms, Other U.S. Areas		scfd CH ₄ /platform	23	No. of oil platforms	0.011
Fugitive Emissions	-,	2-4 F		F	2.476
Offshore Platforms, Gulf of Mexico	56	scfd CH ₄ /platform	1.832	No. of oil platforms	0.037
Offshore Platforms, Other U.S. Areas		scfd CH ₄ /platform		No. of oil platforms	0.000
Oil Wellheads (heavy crude)		scfd/well		No. of hvy. crude wells *	0.001
Oil Wellheads (light crude)		scfd/well		No. of It. crude wells *	1.045
Separators (heavy crude)		scfd CH ₄ /separator		No. of hvy. crude seps.	0.001
Separators (light crude)		scfd CH ₄ /separator	,	No. of It. crude seps.	0.505
Heater/Treaters (light crude)		scfd CH ₄ /heater		No. of heater treaters	0.530
Headers (heavy crude)		scfd CH ₄ /header		No. of hvy. crude hdrs.	0.000
Headers (light crude)		scfd CH ₄ /header	,	No. of It. crude hdrs.	0.171
Floating Roof Tanks		scf CH ₄ /floating roof tank/yr.		No. of floating roof tanks	0.008
Compressors		scfd CH ₄ /compressor		No. of compressors	0.092
Large Compressors		scfd CH ₄ /compressor		No. of large comprs.	0.000
Sales Areas		scf CH ₄ /loading		Loadings/year	0.071
Pipelines		scfd of CH ₄ /mile of pipeline		Miles of gathering line	0.000
Well Drilling		scfd of CH ₄ /oil well drilled		No. of oil wells drilled	0.000
Battery Pumps		scfd of CH ₄ /pump		No. of battery pumps	0.000
Combustion Emissions	0.27	sera or erra/pump	100,200	140. Of battery pumps	1.630
Gas Engines	0.08	scf CH ₄ /HP-hr	15 0/15	MMHP-hr	1.030
Heaters		scf CH ₄ /bbl		MBbl/yr	0.001
Well Drilling		scf CH ₄ /well drilled		Oil wells drilled, 1995	0.001
Flares		scf CH ₄ per Mcf flared		Mcf flared/yr	0.010
Offshore Platforms, Gulf of Mexico		scfd CH ₄ /platform		No. of oil platforms	0.321
				No. of oil platforms	
Offshore Platforms, Other U.S. Areas	401	scfd CH ₄ /platform	23 .	No. of on plationis	0.004 0.548
Process Upset Emissions Platform Emergency Shutdowns	254 000	sofy/plotform	1 055	No of platforms	0.548 0.477
Platform Emergency Shutdowns Pressure Relief Valves		scf/yr/PP valve		No. of platforms	
Well Blowouts Offshore		scf/yr/PR valve		No. of PR valves No. of blowouts/yr	0.006
Well Blowouts Offshore Well Blowouts Onshore		MMscf/blowout MMscf/blowout		3	0.011
Total (excluding stripper wells)	2.5	wiwisci/biowout	24.8	No. of blowouts/yr	0.062 52.42